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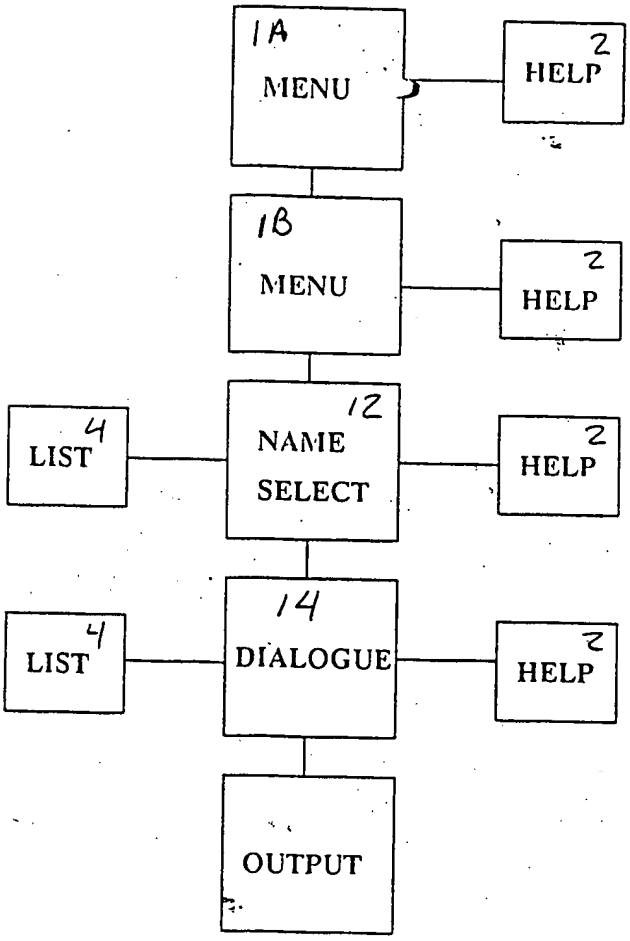

FIG. 1A

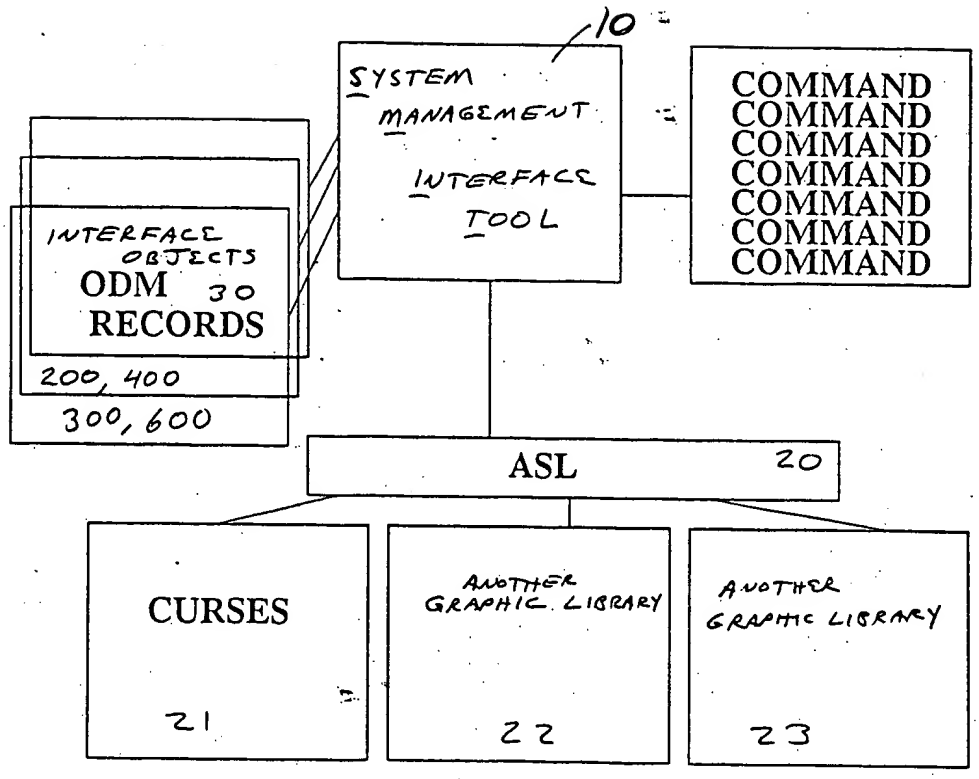
10
SYSTEM MANAGEMENT INTERFACE TOOL
COMMAND
COMMAND
COMMAND
COMMAND
COMMAND
COMMAND
COMMAND
INTERFACE OBJECTS
ODM 30
RECORDS
200, 400
300, 600
ASL 20
CURSES
21
ANOTHER GRAPHIC LIBRARY
22
ANOTHER GRAPHIC LIBRARY
23

FIG. 1B

4

300

SMIT DIALOGUE OBJECT CLASS (sm_cmd_opt)

Each dialogue (leaf) in the SMIT tree has an array of one or more options. Each option corresponds to a fields (parameter, option, or attributes) of the command that the dialogue performs.

```
struct sm_cmd_opt {
302 *id;                    /* symbolic key for object                    */
303 *id_seq_num;             /* seq # for objects in this set              */
304 *disc_field_name;        /* output hdr from cmd_to_discover            */
305 *name;                   /* field name                                 */
306 *name_msg_file;          /* Message Facilities catalogue for name      */
307 name_msg_set;            /* Message Facilities set id for name         */
308 name_msg_id;             /* Message Facilities message id for name     */
309 op_type;                 /* method used to manage this field           */
321 entry_type;              /* type of entry allowed in this field        */
322 entry_size;              /* width of entry allowed in this field       */
310 required;                /* is/is not rqd. for each exec of cmd        */
311 *prefix;                 /* AIX cmd flag for this option               */
313 cmd_to_list_mode;        /*amount of listed item to use                */
312 *cmd_to_list;            /*AIX cmd string for list of candidates       */
323 cmd_to_list_postfix;     /* where to get cmd postfix, if any           */
324 multi_select;            /* multiple select from list is/is not valid  */
314 value_index;             /* zero-origin index of value string, if ring */
315 *disp_values;            /* current, default or allowed values         */
316 *values_msg_file;        /* Message Facilities catalogue for values    */
317 values_msg_set;          /* Message Facilities set id for values       */
318 values_msg_id;           /* Message Facilities message id for values   */
319 *aix_values;             /* current, default or allowed values         */
320 help_msg_id;             /* help system id for help text               */
325 *cmd_to_VALIDATE         /* AIX cmd string for VALIDATION              */
};
```

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FIG. 3

6

400

SMIT DIALOGUE HEADER OBJECT CLASS (sm_cmd_hdr)

There is a header for each dialogue in the SMIT tree.

```
struct sm_cmd_hdr {
402 *id;                    /* symbolic id for object                    */
403 *option_id;               /* pointer to dialogue object                */
405 has_name_select;         /* is/is not preceded by a name selector*    */
404 *name;                   /* descriptive command name (task)           */
406 *name_msg_file; /* Message Facilities catalogue file                   */
407 name_msg_set;            /* Message Facilities set id for name field  */
410 name_msg_id;             /* Message Facilities id for name field      */
408 *cmd_to_exec;            /* AIX command string to execute             */
409 ask;                     /* assure that user wants to execute cmd     */
413 exec_mode;               /* command execution mode                    */
411 ghost;                   /* display or go straight to command         */
412 *cmd_to_discover;        /* cmd to fill in default/current values     */
414 cmd_to_discover_postfix; /* where to get cmd postfix, if any          */
415 name_size;               /* size of name field; default used if = 0   */
416 value_size;              /* size of value field; default used if = 0  */
417 help_msg_id;             /* help system id/key for help text          */
};
```

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FIG. 4

4

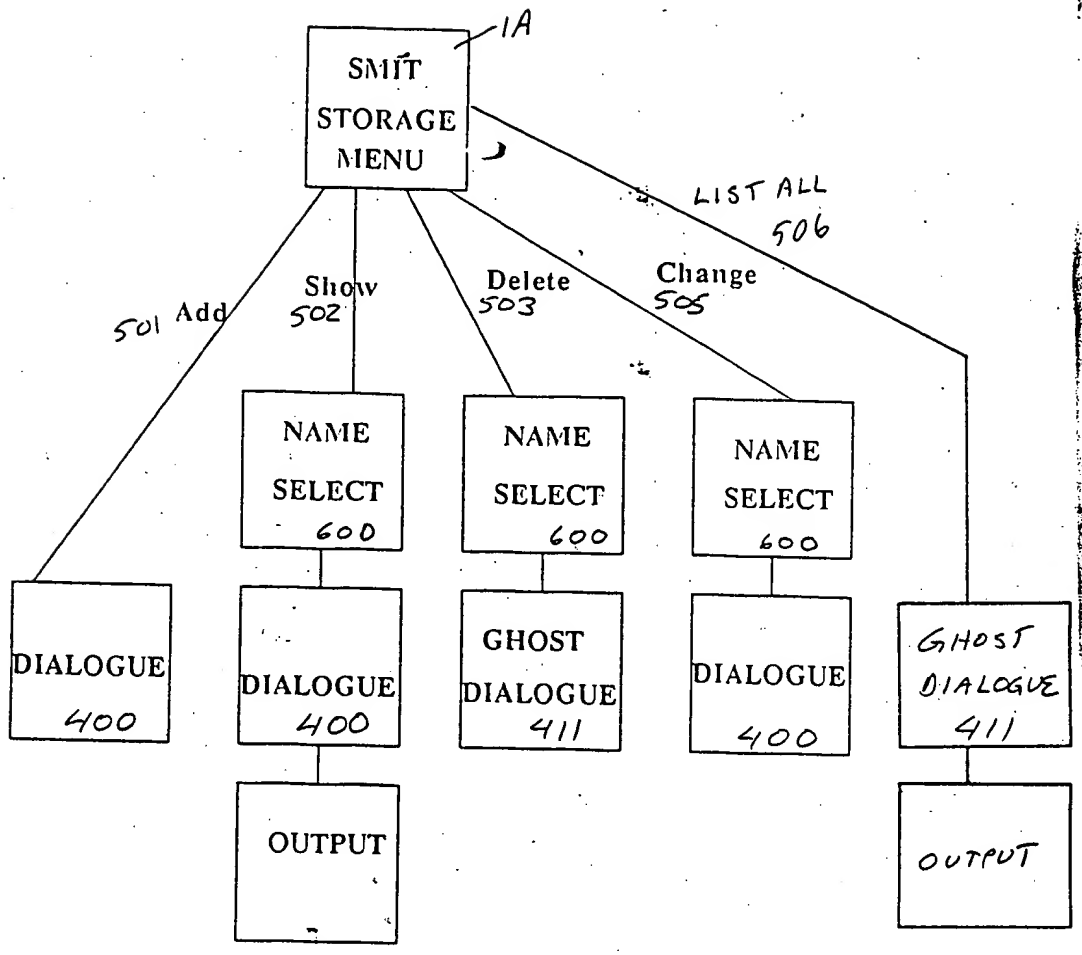
SMIT
STORAGE
MENU
1A
501 Add
Show
502
Delete
503
Change
505
LIST ALL
506
NAME
SELECT
600
NAME
SELECT
600
NAME
SELECT
600
DIALOGUE
400
DIALOGUE
400
GHOST
DIALOGUE
411
DIALOGUE
400
GHOST
DIALOGUE
411
OUTPUT
OUTPUT

FIG. 5A

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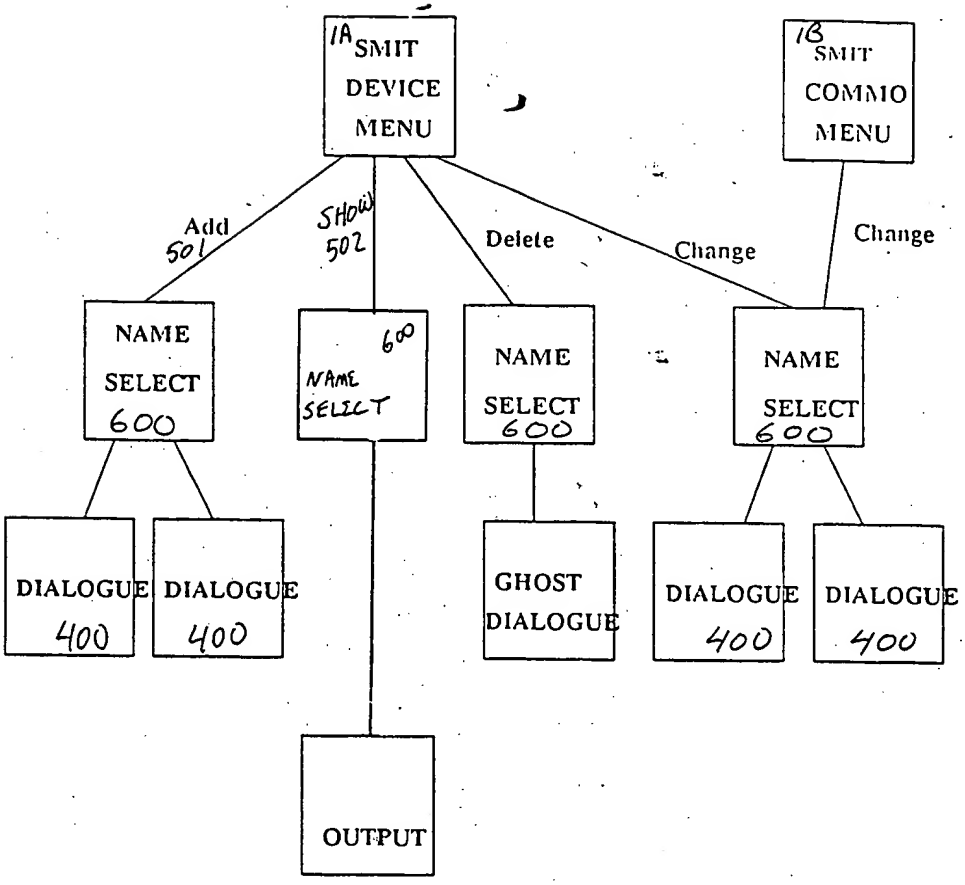

FIG. 5B

600

SMIT NAME SELECT HEADER OBJECT CLASS (sm_name_hdr)

A name select header object may, if needed, be created for each dialogue that appears as the terminal node (leaf) in the SMIT application. This header points to one sm_cmd_opt object which is used to solicit an instance of the object upon which the subsequent dialogue will act. (See above for specification of that object.)

```
struct sm_name_hdr {
602 *id;                    /* symbolic key for object                  */
603 *next_id;                /* symbolic key for next cmd hdr object     */
605 *option_id               /* symbolic key for name selector cmd opt   */
604 *name;
606 *name_msg_file;          /* Message Facilities catalogue name        */
607 name_msg_set;            /* Message Facilities set id for name       */
608 name_msg_id;             /* Message Facilities message id for name   */
609 type;                    /* method to process name selected          */
610 ghost;                   /* display or go straight to listing        */
614 *cmd_to_classify;        /* AIX cmd to classify name                 */
611 help_msg_id;             /* help system id/key for help text         */
    };
```

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FIG. 6

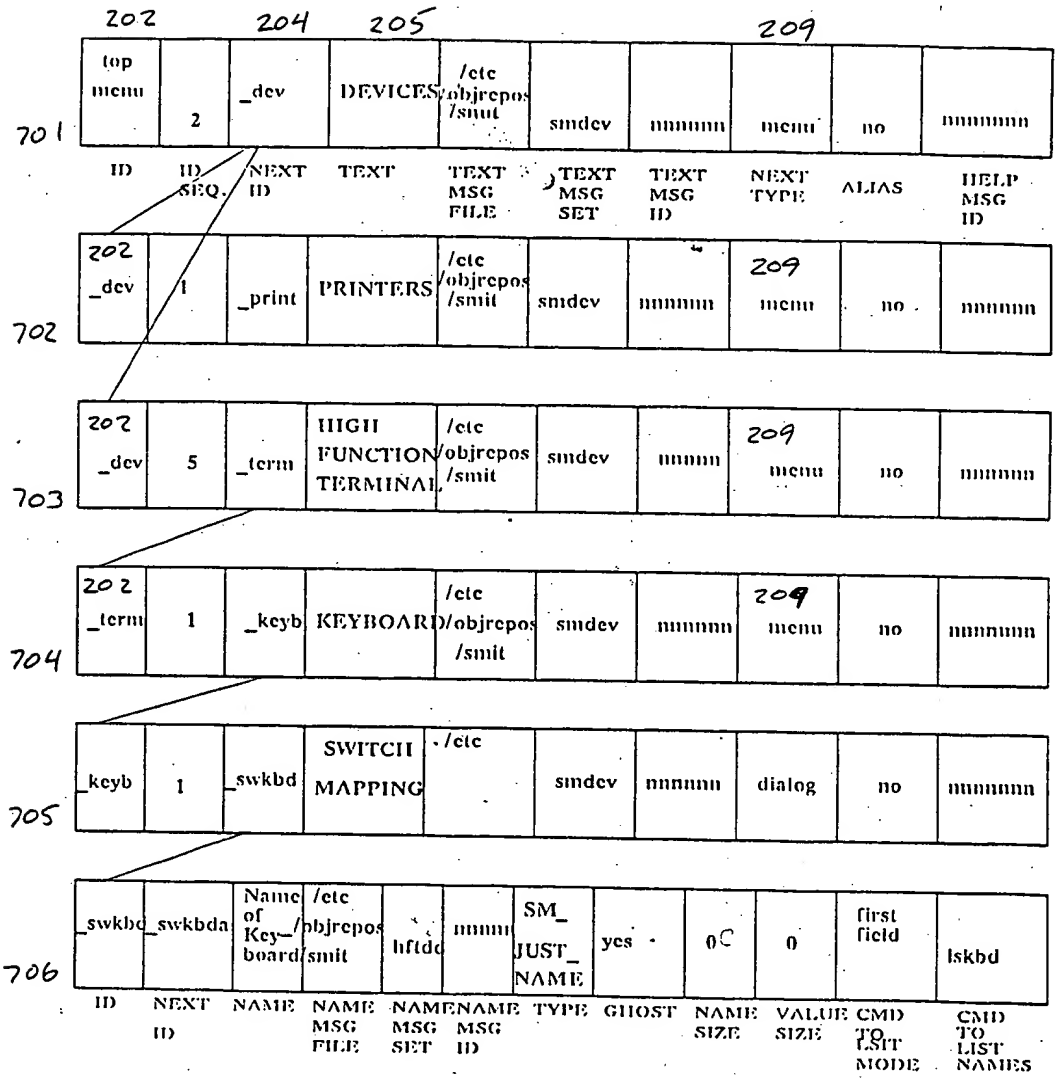
202
204
205
209
top menu
2
_dev
DEVICES
/etc/objrepos/smit
smdev
nnnnnn
menu
no
nnnnnnn
701
ID
ID SEQ.
NEXT ID
TEXT
TEXT MSG FILE
TEXT MSG SET
TEXT MSG ID
NEXT TYPE
ALIAS
HELP MSG ID
202
_dev
1
_print
PRINTERS
/etc/objrepos/smit
smdev
nnnnnn
209
menu
no
nnnnnn
702
202
_dev
5
_term
HIGH FUNCTION TERMINAL
/etc/objrepos/smit
smdev
nnnnn
209
menu
no
nnnnnn
703
202
_term
1
_keyb
KEYBOARD
/etc/objrepos/smit
smdev
nnnnnn
209
menu
no
nnnnnnn
704
_keyb
1
_swkbd
SWITCH MAPPING
/etc
smdev
nnnnnn
dialog
no
nnnnnnn
705
_swkbd
_swkbda
Name of Key-board
/etc/objrepos/smit
hftdd
nnnnn
SM_JUST_NAME
yes
0
0
first field
lskbd
706
ID
NEXT ID
NAME
NAME MSG FILE
NAME MSG SET
NAME MSG ID
TYPE
GHOST
NAME SIZE
VALUE SIZE
CMD TO LIST MODE
CMD TO LIST NAMES
nnnnn
CMD TO CLASSI-FY
HELP MSG ID

FIG. 7

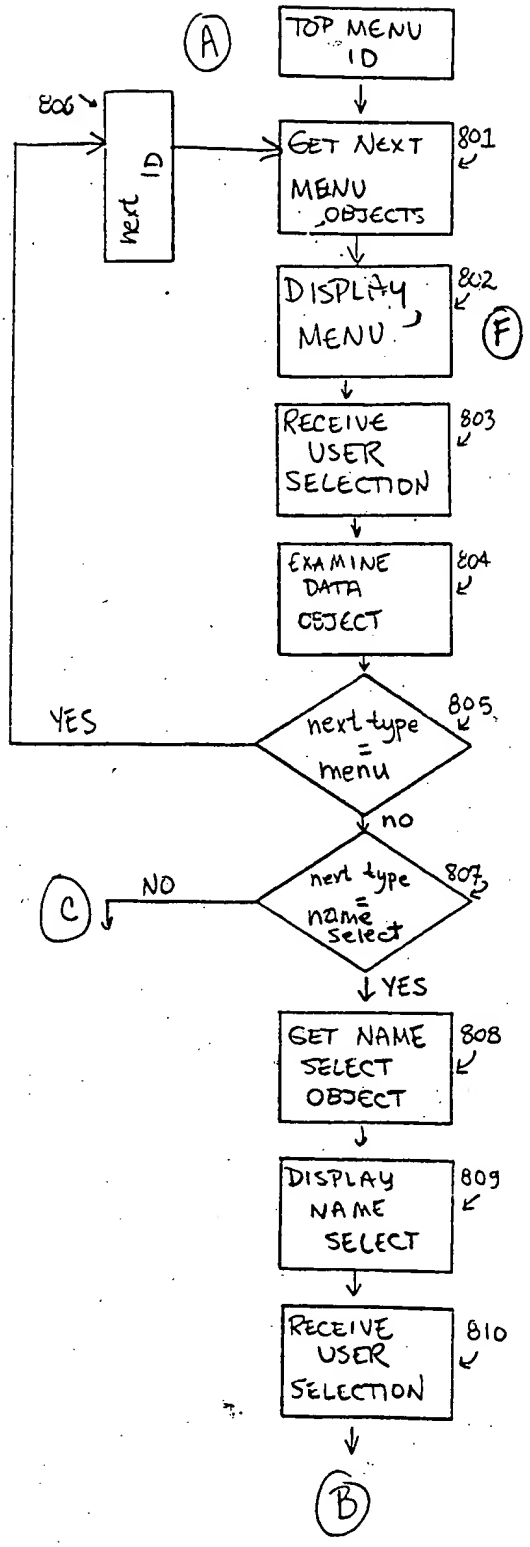
A
TOP MENU ID
806
next ID
GET NEXT MENU OBJECTS
801
DISPLAY MENU
802
F
RECEIVE USER SELECTION
803
EXAMINE DATA OBJECT
804
next type = menu
805
YES
no
next type = name select
807
C
NO
YES
GET NAME SELECT OBJECT
808
DISPLAY NAME SELECT
809
RECEIVE USER SELECTION
810
B

FIG. 8A

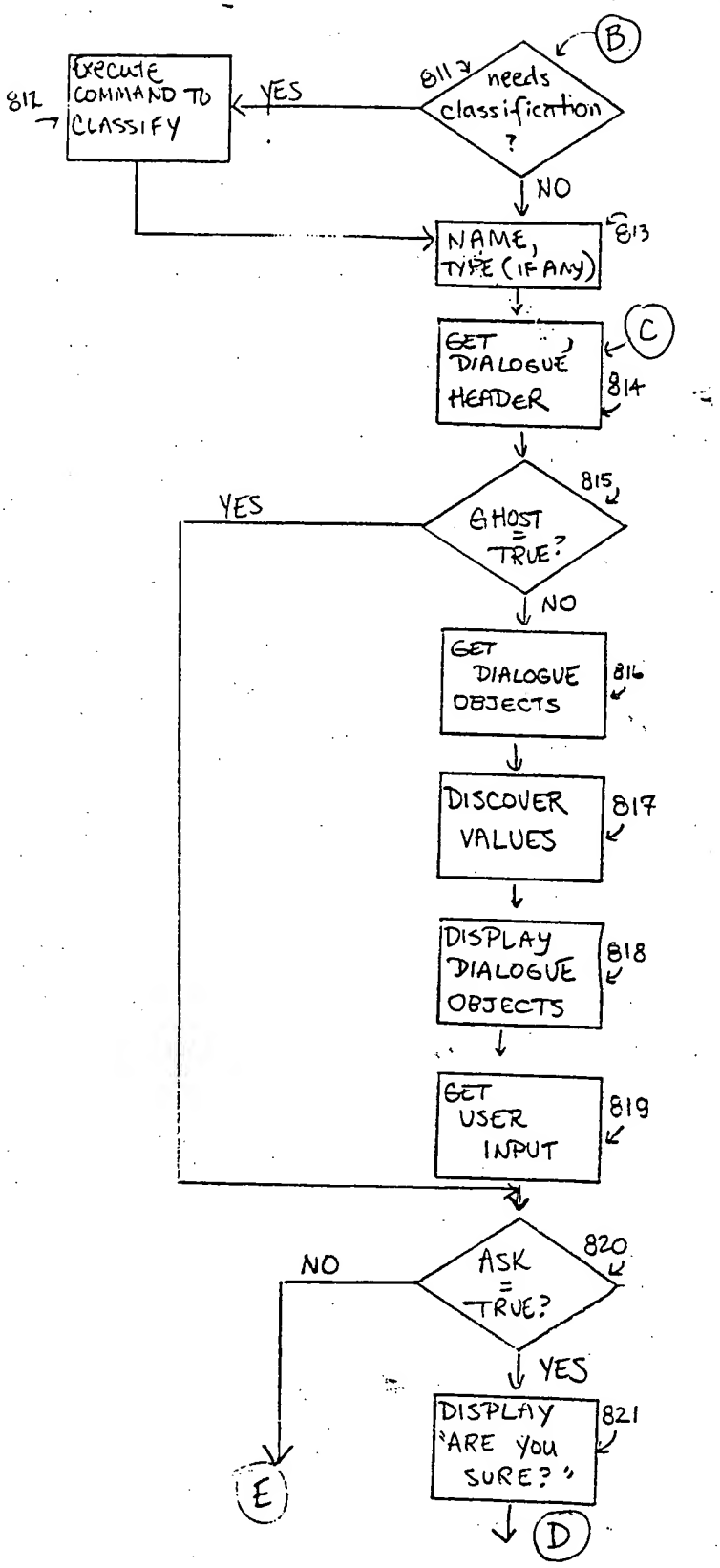
B
811
needs classification ?
YES
812
EXECUTE COMMAND TO CLASSIFY
NO
NAME, TYPE (IF ANY)
813
C
GET DIALOGUE HEADER
814
815
GHOST = TRUE?
YES
NO
GET DIALOGUE OBJECTS
816
DISCOVER VALUES
817
DISPLAY DIALOGUE OBJECTS
818
GET USER INPUT
819
820
ASK = TRUE?
NO
YES
DISPLAY "ARE YOU SURE?"
821
E
D

FIG. 8B

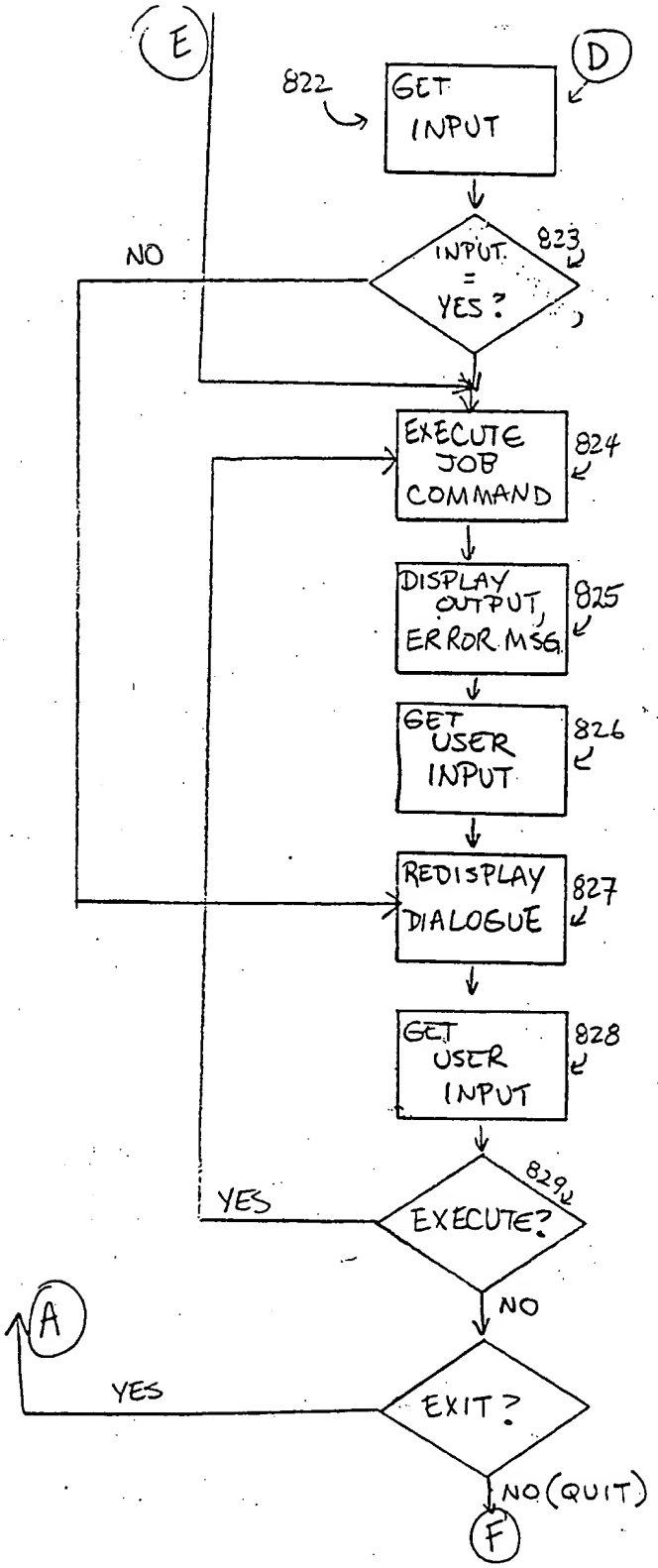
E
D
822
GET INPUT
INPUT = YES ?
823
NO
EXECUTE JOB COMMAND
824
DISPLAY OUTPUT, ERROR MSG
825
GET USER INPUT
826
REDISPLAY DIALOGUE
827
GET USER INPUT
828
EXECUTE?
829
YES
NO
A
EXIT ?
YES
NO (QUIT)
F

FIG. 8C

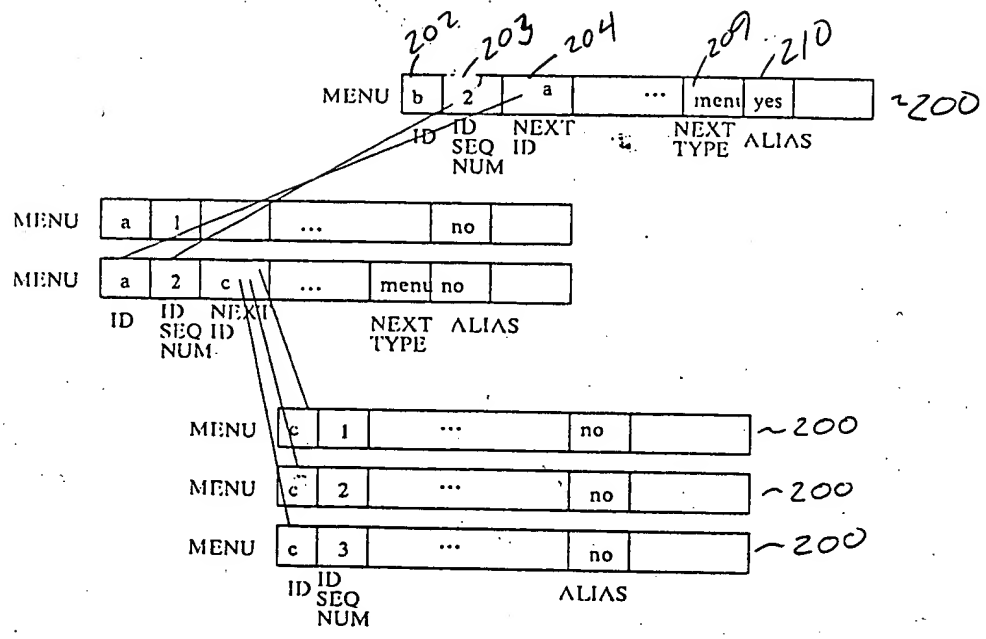
202
203
204
209
210
MENU
b
2
a
...
ment
yes
~200
ID
ID SEQ NUM
NEXT ID
NEXT TYPE
ALIAS
MENU
a
1
...
no
MENU
a
2
c
...
menu
no
ID
ID SEQ NUM
NEXT ID
NEXT TYPE
ALIAS
MENU
c
1
...
no
~200
MENU
c
2
...
no
~200
MENU
c
3
...
no
~200
ID
ID SEQ NUM
ALIAS

FIG. 9A

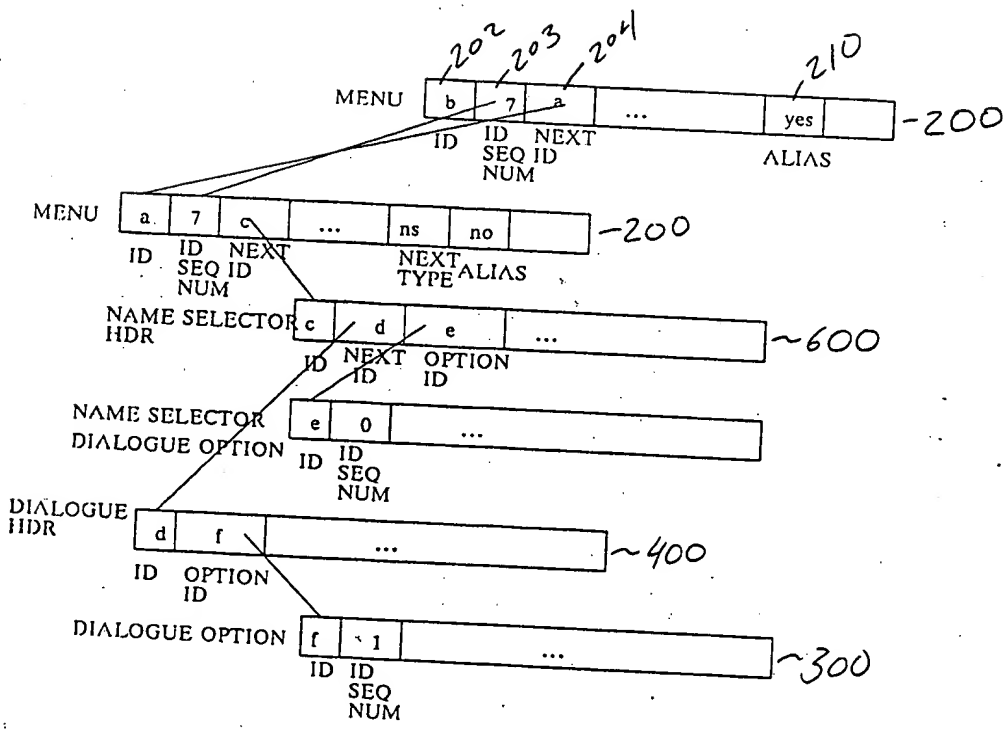
MENU
b
7
a
...
yes
202
203
204
210
200
ID
ID SEQ NUM
NEXT ID
ALIAS
MENU
a
7
c
...
ns
no
200
ID
ID SEQ NUM
NEXT ID
NEXT TYPE
ALIAS
NAME SELECTOR HDR
c
d
e
...
600
ID
NEXT ID
OPTION ID
NAME SELECTOR DIALOGUE OPTION
e
0
...
ID
ID SEQ NUM
DIALOGUE HDR
d
f
...
400
ID
OPTION ID
DIALOGUE OPTION
f
1
...
300
ID
ID SEQ NUM

FIG. 9B

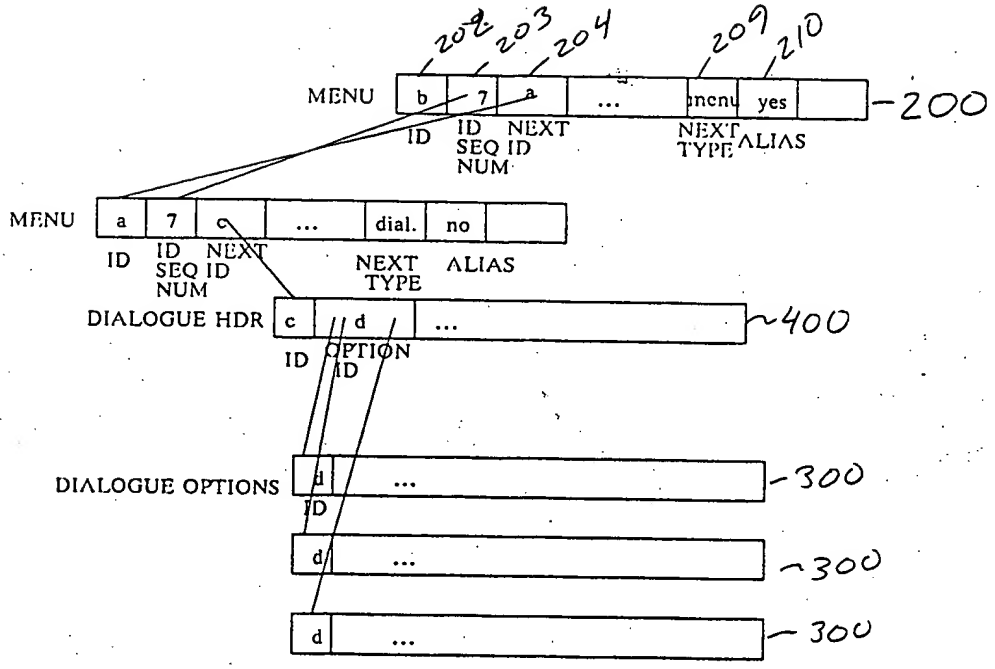
202
203
204
209
210
MENU
b
7
a
...
menu
yes
200
ID
ID SEQ NUM
NEXT ID
NEXT TYPE
ALIAS
MENU
a
7
...
dial.
no
ID
ID SEQ NUM
NEXT ID
NEXT TYPE
ALIAS
DIALOGUE HDR
c
d
...
400
ID
OPTION ID
DIALOGUE OPTIONS
d
...
300
ID
d
...
300
d
...
300

FIG. 9C

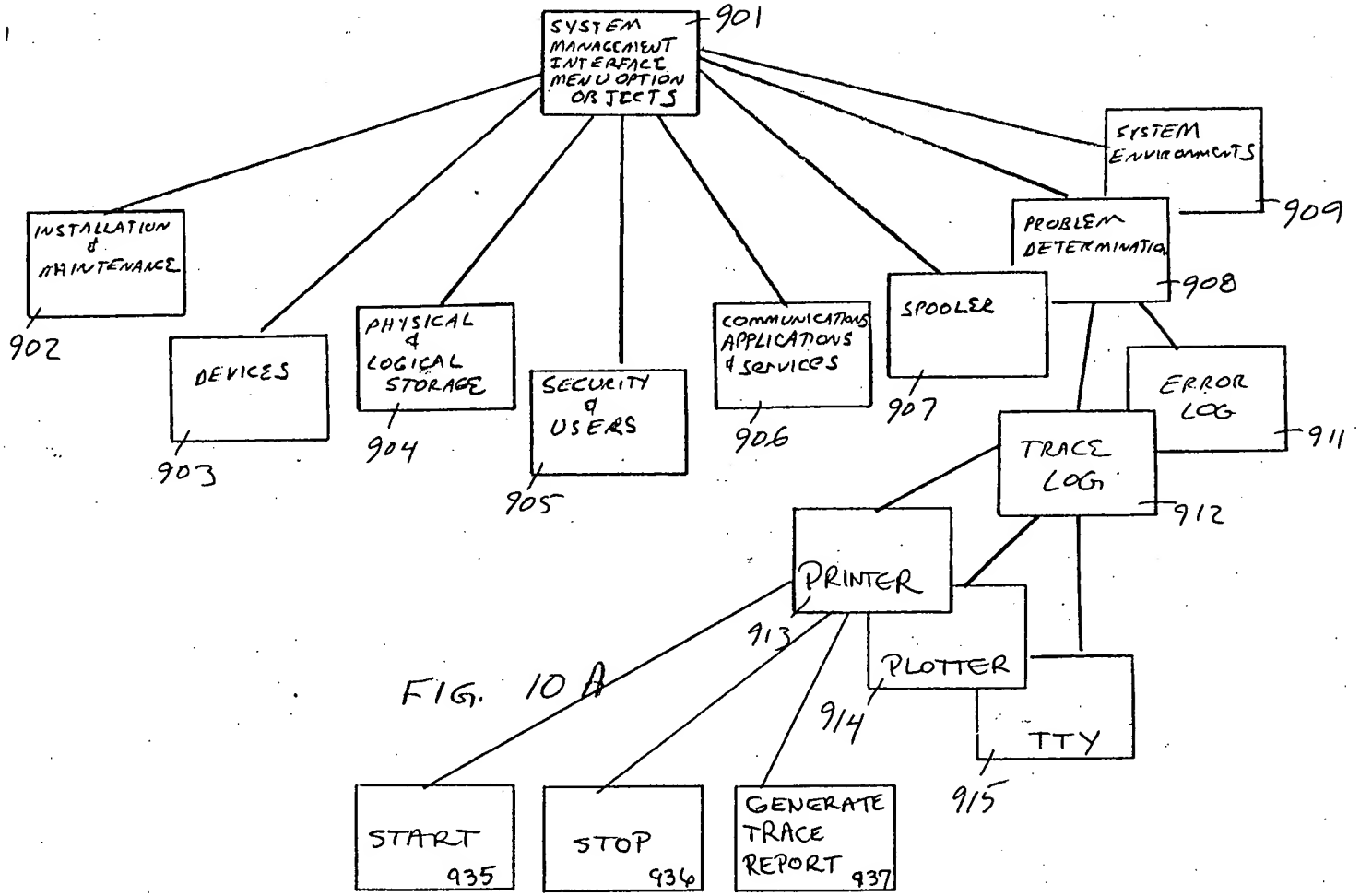

FIG. 10A

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FIG. 10B

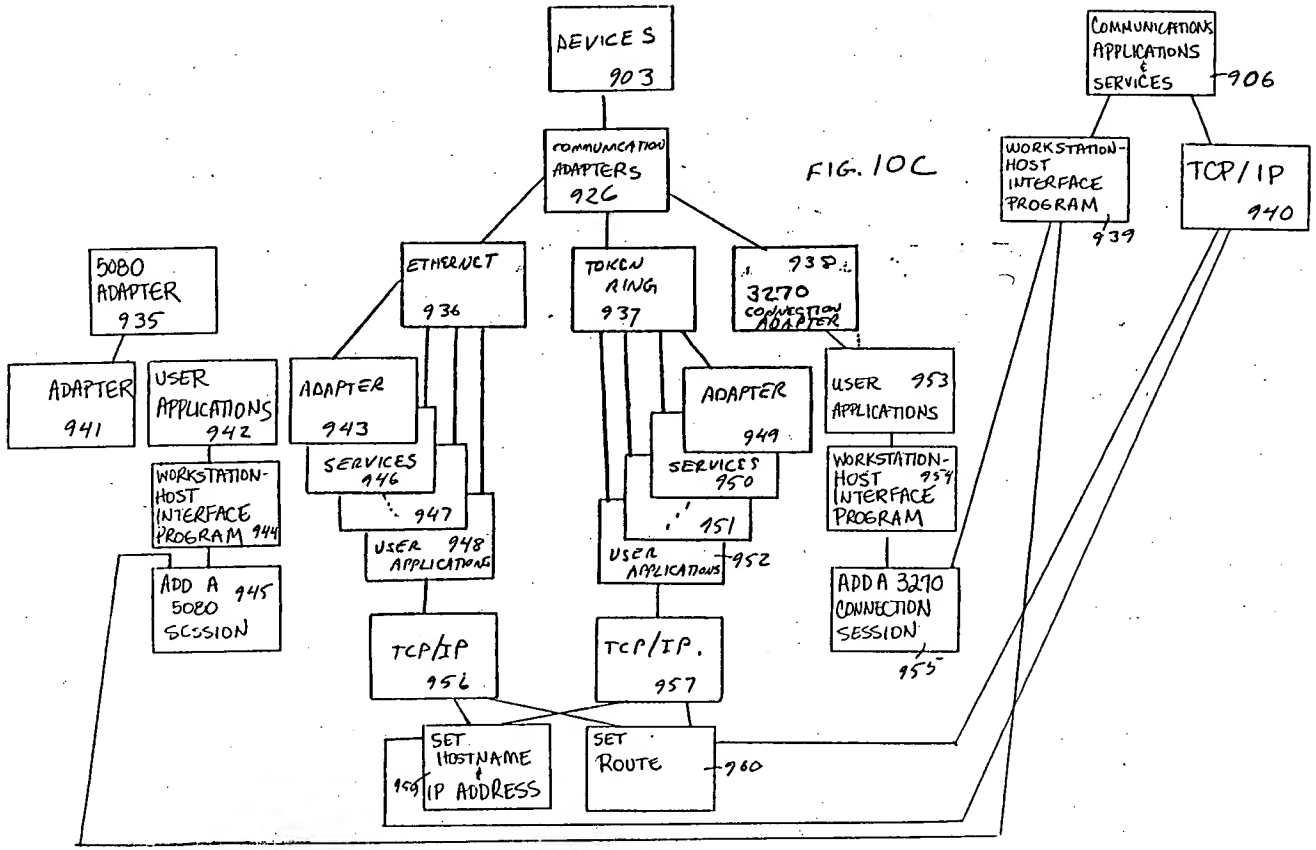

FIG. 10C

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